

GenCode version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

ON nucleic - nucleic search, using sw model

Run on: November 26, 2001, 09:16:10, Search time 2152.46 Seconds  
(without alignments)  
23115.284 Million cell updates/sec

Title: US-08-482-402a-2

Sequence: 1 gagcgatgagggcccat.....atgctcycaaaaaaa 3072

Scoring table: IDENTITY, WGC

Gapop 10.0, Gapext 1.0

Searched: 1472140 seqs, 824859755 residues

Total number of hits satisfying chosen parameters: 2944280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

1: GenBank

2: gb:htg

3: gb:htg

4: gb:htg

5: gb:htg

6: gb:htg

7: gb:htg

8: gb:htg

9: gb:htg

10: gb:htg

11: gb:htg

12: gb:htg

13: gb:htg

14: gb:htg

15: gb:htg

16: gb:htg

17: gb:htg

18: gb:htg

19: gb:htg

20: gb:htg

21: gb:htg

22: gb:htg

23: gb:htg

24: gb:htg

25: gb:htg

26: gb:htg

27: gb:htg

28: gb:htg

29: gb:htg

30: gb:htg

31: gb:htg

32: gb:htg

33: gb:htg

34: gb:htg

35: gb:htg

36: gb:htg

37: gb:htg

38: gb:htg

39: gb:htg

40: gb:htg

41: gb:htg

42: gb:htg

43: gb:htg

44: gb:htg

45: gb:htg

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3004	97.8	3048	6	AB02419 Sequence
2	3004	97.8	3048	6	AB02419 Sequence
3	2951.4	97.4	3027	9	H57PO
4	2951.4	97.4	3027	9	H57PO
5	2652	86.3	2877	9	H57PO
6	2649.6	86.2	2845	9	H57PO
7	2649.6	86.2	2845	9	H57PO
8	2511.4	91.8	2546	6	X23825
9	2511.4	91.8	2546	6	X23825
10	1628.6	53.0	3261	10	MMPER
11	1441.8	46.9	2777	10	BATTPO
12	1270	31.6	1046	9	HUMPO
13	1270	31.6	1046	9	HUMPO
14	516	16.8	16674	2	AC060811
15	510.4	16.6	1142	4	SSTPO
16	469.8	15.3	3213	9	H57PO
17	469.8	15.3	3213	9	H57PO
18	469.8	15.3	3213	9	H57PO
19	469.8	15.3	3213	9	H57PO
20	469.8	15.3	3213	9	H57PO
21	469.8	15.3	3213	9	H57PO
22	461.4	15.0	2666	10	MUSEPO
23	461.4	15.0	2666	10	MUSEPO
24	461.4	15.0	2666	10	MUSEPO
25	435.2	14.1	2559	9	HUMPO
26	435.2	14.1	2559	9	HUMPO
27	427.8	13.9	3846	5	AF349034
28	427.8	13.9	3846	5	AF349034
29	417	13.6	6847	9	AF700348
30	411.8	13.4	2814	5	AF778824
31	397.4	12.9	2768	9	H57PO
32	397.4	12.9	2768	9	H57PO
33	395.2	12.9	3449	3	AB028841
34	386	12.6	2710	4	BOVPO
35	379.6	12.4	2780	4	AF027970
36	379.6	12.4	2780	4	AF027970
37	348	11.2	17245	9	AC009471
38	338.4	11.0	435	9	S4624351
39	317	10.3	300829	3	AB003475
40	317	10.3	300829	3	AB003475
41	301.8	9.8	2512	5	XL68724
42	295	9.6	4871	3	DMG10552
43	289.6	9.4	1398	9	HUMPO
44	261.2	8.5	1448	5	AF364820
45	261.2	8.5	1448	5	AF364820

## ALIGNMENTS

### Result 1

LOCUS	DEFINITION	LOCUS	LOCUS	LOCUS
HUMPO	Human thyroid peroxidase (TPO) mRNA, complete cds.	HUMPO	Human thyroid peroxidase (TPO) mRNA, complete cds.	HUMPO
ML7755.2	GI:4680720	ML7755.2	GI:4680720	ML7755.2
KEYWORDS	human	KEYWORDS	human	KEYWORDS
SOURCE	human	SOURCE	human	SOURCE
ORGANISM	human	ORGANISM	human	ORGANISM

REFERENCE	REFERENCE	REFERENCE	REFERENCE	REFERENCE
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36







[illegible]

Db 241. AGATGACGAGAACTCAGAAAGAGAAATCTCTTCCAGCTCAGCTTGCTGCTTTT 300  
 Oy 1393 gggcgaagctctggagctctgagcagctctgagcagctcaacactgagagatcaactcccaag 1452  
 Db 1381 GCGCAGAGTCTGGGCTCTCTCTCTCCAGATATCAGCTGAGGATTCATCTCCGAG 1440  
 Oy 1453 attctggagcaagagcttccaaomgcaetgggtccctcaagaactaactcaac 1512  
 Db 1373 tcatcaagagctgaagaaagaaatcaactggagaaactcaactcaagctcaagc 432  
 Oy 1441 attggaaactcgaagctctcgaagctctcgaagctctcgaagctctcgaagctcgaag 1500  
 Db 1361 TCAATGACGAGTGAAGAAAGTCACTGAGATCACTGAGATCACTGAGATCACTGAG 420  
 Oy 1432 gajctctgagctctggagctctggagctctggagctctggagctctggagctctggag 492  
 Db 1351 GAGCTGATTCAGAAAGTCTGAGATCACTGAGATCACTGAGATCACTGAGATCACTGAG 480  
 Oy 493 algtgctccaaatggcaaaacttggctgggaaacttggctgggaaacttggctgggaaacttgg 552  
 Db 481 ATGCTGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAAT 540  
 Oy 553 gcttgcacacacagagctctcgaagctctcgaagctctcgaagctctcgaagctctcgaag 610  
 Db 541 GCTTGACACACAGAGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAAT 600  
 Oy 613 cccctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 672  
 Db 601 CT 660  
 Oy 732 tctctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 732  
 Db 661 TACACAGGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAATGCTCCCAAT 720  
 Oy 733 attatgatttgagcaagctctcgaagctctcgaagctctcgaagctctcgaagctctcgaag 792  
 Db 721 AATGAGCTGTCACAGATGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 780  
 Oy 783 atcgacagagagctctcgaagctctcgaagctctcgaagctctcgaagctctcgaagctct 852  
 Db 771 ATGACAGAGAGCT 840  
 Oy 843 tctctctccctccctccctccctccctccctccctccctccctccctccctccctccctcc 912  
 Db 831 GCTGATCTGCTGATGATCTGAGAGCAAAACCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 900  
 Oy 1213 gagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 972  
 Db 901 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 960  
 Oy 973 gctccctccctccctccctccctccctccctccctccctccctccctccctccctccctcc 1032  
 Db 961 GCTGATCTGCTGATGATCTGAGAGCAAAACCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 1020  
 Oy 1033 gagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 1092  
 Db 1021 ATGACAGAGCT 1080  
 Oy 1093 gagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 1152  
 Db 1081 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 1140  
 Oy 1153 cggagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 1212  
 Db 1141 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 1200  
 Oy 1213 cggagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 1272  
 Db 1201 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 1260  
 Oy 1273 gctccctccctccctccctccctccctccctccctccctccctccctccctccctccctcc 1332  
 Db 1261 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 1320  
 Oy 1332 cggagctccctccctccctccctccctccctccctccctccctccctccctccctccctccct 1392  
 Db 1321 GAGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCT 1380



[illegible][illegible]













[illegible][illegible]







Db 2195 TCTCTGAGGACATCCGACGATGACCTGACCTGACCTGACGAGCAGCTTCCACAGAT 2254  
 Db 2302 GCAAGTGTGCTCCGAGAGCTGAGAGTGGAGTCTGTGAGCTGTGAGGAGCTC 2361  
 Db 2355 GAGAGATGTGCTTCCGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGT 2314  
 Db 2362 GAGAGAGTGTGCTTCCGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2421  
 Db 2315 GAGAGAGTGTGCTTCCGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2374  
 Db 2422 CCACTGTGAGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 2481  
 Db 2375 GTACGATGATCCGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2434  
 Db 2482 GTGAGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2541  
 Db 2435 TGTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2494  
 Db 2542 GGTCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2601  
 Db 2495 AGCTGTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGG 2554  
 Db 2602 GGTCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2661  
 Db 2555 GATCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2614  
 Db 2662 GGTCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2721  
 Db 2615 GATCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2674  
 Db 2722 GGTCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2781  
 Db 2675 GGCATGTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 2728  
 Db 2782 GGTCTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2840  
 Db 2729 GAGGAGAGGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 2787

RESULT 11  
 BATTIPOR 2777 bp BINA ROD 27-APR-1993  
 LOCUS Rattus norvegicus (PRT-5) MINA, 3' end.  
 ACCESSION M1655  
 VERSION M1655.1 GI:207434  
 XREFS Rattus norvegicus  
 ORGANISM Rattus norvegicus  
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
 Rattus;  
 (bases 1 to 2777)  
 Isozaki, O., Kohi, L.D., Kozak, C.A. and Kimura, S.  
 Regulation of gene expression by chromosomal localization in  
 mouse and regulation of gene expression by comparison to  
 thyroglobulin in rat PRT-5 cells  
 Mol. Endocrinol. 3, 1681-1692 (1989)  
 90114171 Location/Qualifiers  
 1. .2777  
 /organism="Rattus norvegicus"  
 /db="taxon:10116"  
 /note="thyroid peroxidase"  
 /codon\_start="1"  
 /db\_xref="GI:207434"  
 /translation="YFPITGVCKNHRPRGASATLALMPYVEEDSOPGRNPN  
 FLTHGSLVREYTHLITVSHENATDEDDTSDLPVMAQITDHDALITPOSTTAA  
 PPKMKNLSTLSTNYSSGSPVKKLHNSAGLLAYTHLHLSGLLHFLPASA  
 CAEBAEPHANTTCTLADGSEVPLAAVMTLWLRNRLRLAFAALITNSATP  
 AYQERAYVGLALQITIMDDITPKILGFDMDTGVPTDPTNFTVPTVSNVSTAAIP

Query Match 46.94; Score 1441.8; DB 10; Length 2777;  
 Best Local Similarity 77.64; Pred. No. 1.3e-253;  
 Matches 1791; Conservative 0; Mismatches 492; Indels 24; Gaps 3;  
 Oy 533 TACGAGTCCGATCCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 594  
 Db 1 TACGAGTCCGATCCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 60  
 Oy 595 TACGAGTCCGATCCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 654  
 Db 61 ACAGCCTCTACAGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 120  
 Oy 655 TACGAGTCCGATCCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 714  
 Db 121 TACGAGTCCGATCCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 780  
 Oy 715 CATGATCAAGTTCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 894  
 Db 181 CACTCATCAAGTTCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAG 240  
 Oy 775 ATGGGTGGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 834  
 Db 241 CAGGTGTGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 300  
 Oy 835 GTCGCTCTGGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 894  
 Db 301 CAGGCTCTGGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 360  
 Oy 895 CCGATCAAGTTCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 954  
 Db 361 CCGATCAAGTTCGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 414  
 Oy 955 GTCGCTCTGGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 1014  
 Db 415 CAGGCTCTGGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 474  
 Oy 1015 GCGACAGAGAGGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG 1074  
 Db 475 GCGACAGAGAGGAGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGAG 534  
 Oy 1075 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 1134  
 Db 535 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 594  
 Oy 1135 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 1194  
 Db 595 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGG 654  
 Oy 1195 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 1254  
 Db 643 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 702  
 Oy 1255 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 1314  
 Db 703 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 762  
 Oy 1315 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 1374  
 Db 763 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 822  
 Oy 1375 GCGAGTCCGAGAGGAGTGTGAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAG 1434









